Durafil® ES³ NanoTech

Synthetic Nanofiber Media in a High Efficiency, Energy Saving, Mini-Pleat V-Bank Air Filter

The Camfil Durafil ES³ NanoTech is a high-performance, compact V-bed style air filter designed specifically for applications where durability and moisture resistance are essential.

Filtration Efficiency

The Durafil ES³ NanoTech media is constructed using proprietary nanotechnology synthetic fine fibers that deliver high-strength and moisture resistance yet does not degrade in capture efficiency. The NanoTech is available in MERV 15/15A (ePM1 85%).

Low Resistance to Airflow Despite Harsh Conditions

The Durafil ES3 NanoTech features proprietary synthetic nanofibers and an engineered V-bed design with consistent pleat spacing, ensuring a low initial pressure drop. The advanced design provides low resistance and sustained airflow, even in harsh environmental conditions where other filters may fail quickly.

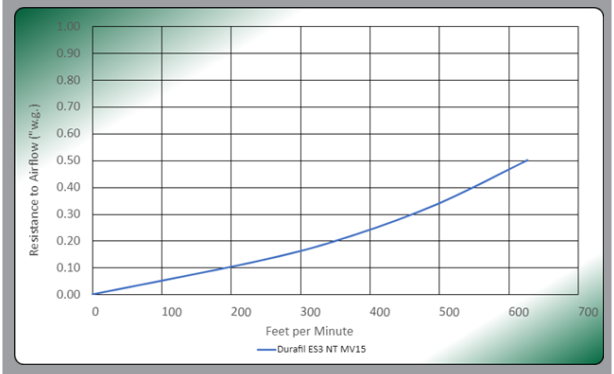
Long Service Life

The same engineered techniques that deliver low-average resistance yield high dirt holding capacity for long service life. When used in its intended conditions, the Durafil ES3 NanoTech may not match the service life guarantee of the standard Durafil ES3, which is designed for more typical applications. However, the NanoTech will still provide an extended service life, except in the most challenging environments.

Other Features of the Durafil ES³ NanoTech

- Available in seven standard sizes, more than any other V-bed filter on the market today.
- Single unit, durable ABS frame front is designed to minimize bypass commonly found in other snap-together V-bed style filters.
- Integrated prefilter clip slots for face-mounted prefilters.
- Integral prefilter plenum section designed to minimize airflow blockage when a prefilter is installed directly on the face.
- Structural supports incorporated in the frame double as carrying and lifting handles for easier installation and transportation.
- The NanoTech shares the same frame as the Durafil ES3, allowing it to be installed into the Durafil ES3 Box Kit – a reusable adapter that converts the Durafil ES3 NanoTech into a box-style filter suitable for any application. Likewise, the optional and replaceable ContinuSeal Gasket, which further reduces air bypass in critical applications by up to 90%, is compatible with the NanoTech.

Low resistance to airflow with sustained efficiency and the strength to withstand harsh conditions.



Synthetic media with sustained MERV 15/15A efficiency.
Airflow resistance measured up to 625 fpm maximum airflow.

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Performance Data

Capture Efficiency ASHRAE 52.2 -2017 ISO16890	Part Number	Description	Initial Resistance (inches w.g.)	Airflow Capacity (cfm)	Nominal Size H x W x 12 (inches)	Actual Height (inches)	Actual Width (inches)	Actual Depth (inches)
MERV 15/15A ePM_1 85%	855081331	DU4V-ES3-2424-NT-MV15	0.34"	2000	24 x 24	23.31	23.31	11.75
	855081332	DU4V-ES3-2024-NT-MV15		1660	20 x 24	19.31	23.31	11.75
	855081333	DU4V-ES3-1224-NT-MV15		1000	12 x 24	11.31	23.31	11.75
	855081334	DU3V-ES3-2020-NT-MV15		1380	20 x 20	19.31	19.31	11.75
	855081335	DU4V-ES3-2025-NT-MV15		1730	20 x 25	19.31	24.31	11.75
	855081336	DU3V-ES3-1620-NT-MV15		1110	16 x 20	15.31	19.31	11.75
	855081337	DU4V-ES3-1625-NT-MV15		1380	16 x 25	15.31	24.31	11.75

DATA NOTES:
Maximum useable velocity is 625 fpm. For reverse flow designs, contact factory.
Schedule air filters for change when initial pressure drop has doubled. Final pressure drop should not exceed 1.50" w.g.
Clips to hold prefilter to face: 2" = C-84-2 4" = C-84-4 The Durafil ES³ NanoTech is listed UL 900 by Underwriters Laboratories.
Maximum continuous operating temperature 175° F. (79° C.), relative humidity 99%. Performance tolerance in accordance with ARI Standard 850.

Specifications

1.0 General
1.1 - Air filters shall be V-bank mini-pleat nanofiber disposable type with pleat separators, polyurethane pack-to-frame sealant, ABS enclosing frame, and have an ECI value of five stars.
1.2 - Sizes shall be as noted on drawings or other supporting materials.
2.0 Construction
2.1 - Pleats media packs shall be assembled into a V-bank configuration with sufficient total media area to meet airflow requirements.
2.2 - The media packs shall be bonded to the inside periphery of an ABS enclosing frame with a polyurethane sealant. The enclosing frame shall include top and bottom molded tracks as an integral part of the frame to ensure a proper seal.
2.3 - Media packs shall be recessed at least 1" from the air-entering side of the enclosing frame to allow uniform airflow when a prefilter is mounted directly to the enclosing frame.
2.4 - Rigid plastic end caps shall be mechanically fastened to the top and bottom of the media pack enclosing structure to ensure a rigid and durable filter.
2.5 - Carrying handles shall be an integral part of the filter frame and shall bridge from media pack to media pack providing additional filter support and filter rigidity. Filters are not intended for reverse mount applications.

3.0 Performance
3.1 - The filter shall have a Minimum Efficiency Reporting Value of MERV 15A when evaluated under ASHRAE Standard 52.2, Appendix J. It shall have an efficiency of ePM1-85% when evaluated per ISO filter testing standard 16890.
3.2 - Filter shall be listed UL 900 by Underwriters Laboratories.
3.3 - The filter shall be capable of withstanding 10.00" w.g. without failure of the media pack.
3.4 - Manufacturer shall provide evidence of facility certification to ISO 9001:2015.
3.5 - Filter shall have a 5-Star rating when evaluated per Energy Cost Index (ECI).
Supporting Data - Provide product test reports for each listed efficiency including all details as prescribed in ASHRAE Standards 52.2 including Appendix J.

Filters shall be Camfil Durafil ES3 NanoTech or equal.

camfil ISO 9001:2015 Certified Quality System

For detailed specifications, please consult your local Camfil distributor, representative or visit Durafil V-Bank Air Filters. Camfil has a policy of uninterrupted research, development and product improvement. We reserve the right to change designs and specifications without notice.

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